## **IN THE CLAIMS**

The following is a complete listing of the claims, which replaces all previous versions and listings of the claims.

1. (previously presented) A patient support system for a medical imaging system, comprising:

a lateral rail structure attachable to a receptor of the medical imaging system; and a patient support movably coupled to the lateral rail structure via a rail guide structure, wherein the rail guide structure is releasably coupled to the lateral rail structure via a releasable latch.

- 2. (original) The patient support system of claim 1, wherein the lateral rail structure has a curvilinear path.
- 3. (original) The patient support system of claim 2, wherein the curvilinear path is convex.
  - 4. (canceled)
- 5. (original) The patient support system of claim 1, wherein the patient support is positionally securable along the lateral rail structure via a friction-based mechanism activated by a patient load applied to the patient support.
- 6. (original) The patient support system of claim 1, wherein the patient support is continuously movable and securable along the lateral rail structure.
- 7. (original) The patient support system of claim 1, wherein the patient support is a patient limb support.

- 8. (original) The patient support system of claim 1, wherein the patient support is a patient extremity support.
- 9. (original) The patient support system of claim 8, wherein the patient support is adapted to position patient extremity in a non-obstructive location relative to the receptor.
- 10. (original) The patient support system of claim 1, wherein patient support comprises a plurality of hand grips.
- 11. (original) The patient support system of claim 10, wherein the plurality of hand grips are disposed at different vertical positions.
- 12. (currently amended) A patient support for an imaging system, comprising: a curvilinear rail structure attachable to, and movable with, a radiographic receptor of the imaging system; and
- a limb support slidingly coupled to the curvilinear rail structure, wherein the limb support is continuously movable and securable along the curvilinear rail structure.
- 13. (original) The patient support of claim 12, wherein the curvilinear rail structure has a convex path.
- 14. (original) The patient support of claim 12, comprising a releasable latch structure coupling the limb support to the curvilinear rail structure.
- 15. (original) The patient support of claim 12, wherein the limb support is positionally securable along the curvilinear rail structure via a holding mechanism activated by weight of a patient limb supported by the limb support.

- 16. (canceled)
- 17. (original) The patient support of claim 12, wherein the limb support is adapted to position a patient limb in a non-obstructive location relative to the radiographic receptor.
- 18. (original) The patient support of claim 12, wherein limb support comprises a hand grip.
- 19. (original) The patient support of claim 12, wherein limb support comprises a wrist support.
- 20. (original) The patient support of claim 12, wherein the limb support comprises a plurality of lateral support members disposed at different vertical positions.
  - 21. (previously presented) A medical imaging system, comprising: a radiographic receptor;
  - a rail structure coupled to the radiographic receptor; and
  - a patient extremity support slidingly coupled to the rail structure;
  - wherein the rail structure has a curvilinear path; and
- wherein the patient extremity support tiltingly slides along the rail structure with the curvilinear path.
- 22. (original) The medical imaging system of claim 21, wherein the radiographic receptor is a digital detector assembly.
- 23. (original) The medical imaging system of claim 21, wherein the radiographic receptor is coupled to a positioning system.

- 24. (original) The medical imaging system of claim 21, wherein the rail structure is coupled to an upper rear portion of the radiographic receptor.
  - 25. (canceled)
- 26. (previously presented) The medical imaging system of claim 21, wherein the curvilinear path is convex.
  - 27. (canceled)
- 28. (original) The medical imaging system of claim 21, comprising a releasable latch structure coupling the patient extremity support to the rail structure.
- 29. (original) The medical imaging system of claim 21, wherein the patient extremity support is frictionally securable along the rail structure via a holding mechanism activated by weight of a patient extremity supported by the patient extremity support.
- 30. (original) The medical imaging system of claim 21, wherein the patient extremity support is movable in infinitesimal increments along the rail structure.
- 31. (original) The medical imaging system of claim 21, wherein the patient extremity support is adapted to position a patient limb in a non-obstructive location relative to the radiographic receptor.
- 32. (previously presented) A method of supporting a patient limb during image acquisition by a medical imaging system, comprising the acts of:

sliding a limb support along a rail structure directly coupled to, and movable with, a radiographic receptor of the medical imaging system; and

securing the limb support in a desired position along the rail structure.

- 33. (original) The method of claim 32, wherein the act of sliding the limb support along the rail structure comprises the act of sliding the limb support along a curvilinear path.
- 34. (original) The method of claim 33, wherein the curvilinear path is convex.
- 35. (original) The method of claim 32, wherein the act of sliding the limb support along the rail structure comprises the act of moving the limb support in infinitesimal increments.
- 36. (original) The method of claim 32, wherein the act of securing the limb support in the desired position comprises the act of frictionally securing the limb support.
- 37. (original) The method of claim 36, wherein the act of frictionally securing the limb support is activated by performing the act of supporting the patient limb on the limb support.
- 38. (original) The method of claim 32, wherein the act of securing the limb support in the desired position comprises the act of positioning a patient limb in a non-obstructive location relative to the radiographic receptor.
- 39. (currently amended) A method of forming a laterally adjustable limb support for a medical imaging system, comprising the acts of:

providing a lateral rail structure attachable to a receptor of the medical imaging system wherein the lateral rail structure has a curvilinear path;

providing a friction-based securement mechanism to secure the limb support at a desired position along the lateral rail structure; and

slidingly coupling a limb support to the lateral rail structure.

- 40. (canceled)
- 41. (previously presented) The method of claim 39, wherein the curvilinear path is convex.
- 42. (original) The method of claim 39, comprising the act of providing a vertical release mechanism to facilitate vertical release of the limb support from the lateral rail structure.
  - 43. (canceled)
- 44. (original) The method of claim 43, wherein the act of providing a friction-based securement mechanism comprises the act of creating a holding force between the limb support and the receptor as a patient load is applied to the limb support.
  - 45 49. (canceled)
- 50. (currently amended) A patient support system for a medical imaging system, comprising:
- a lateral rail structure <u>directly</u> attachable to a receptor of the medical imaging system; and
- a patient support movably coupled to the lateral rail structure via a rail guide structure, wherein the patient support comprises a plurality of hand grips.
- 51. (previously presented) The patient support system of claim 50, wherein the plurality of hand grips are disposed at different vertical positions.